CLAIMS:

1. A potassium channel opener comprising a compound represented by the formula [I]:

$$R^7$$
 R^6 R^4 (I)

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wherein R¹, R², R³, R⁴, R⁵, R⁶ and R⁷ are each independently hydrogen, alkyl, alkenyl, halogen, hydroxy, halogenated alkyl, hydroxyalkyl, aminoalkyl, alkoxy, aryl, heteroaryl, acyl, carboxyl, alkoxycarbonyl, hydroxamate, sulfo, carbamoyl, sulfonamide, aldehyde or nitrile; or R⁴ and R⁵ may be bonded to each other to form a ring; or R⁶ and R⁷ may be bonded to each other to form a ring; and all of three bonds represented by ——— are single bonds, or one of the three bonds is double bond and the other bonds are single bonds,

or a physiologically acceptable salt thereof as an active ingredient.

2. The potassium channel opener according to Claim 1, comprising a compound represented by the formula:

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wherein R^2 is hydroxy, hydroxyalkyl, aminoalkyl, alkoxy, acyl, carboxyl, hydroxamate, sulfo, carbamoyl, sulfonamide or nitrile; R^1 , R^3 , R^4 , R^5 , R^6 and R^7 are each independently hydrogen, alkyl, alkenyl, halogen, hydroxy, halogenated alkyl,

hydroxyalkyl, aminoalkyl, alkoxy, aryl, heteroaryl, acyl,

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carboxyl, alkoxycarbonyl, hydroxamate, sulfo, carbamoyl, sulfonamide, aldehyde or nitrile; or R⁴ and R⁵ may be bonded to each other to form a ring; or R⁶ and R⁷ may be bonded to each other to form a ring;

and all of three bonds represented by ---- are single bonds, or one of the three bonds is double bond and the other bonds are single bonds,

or a physiologically acceptable salt thereof as an active ingredient.

- 3. The potassium channel opener according to Claim 1 or 2, comprising as an effective ingredient a compound wherein R^1 , R^3 , R^4 and R^5 are alkyl or alkenyl, R^6 and R^7 are hydrogen and R^2 is carboxyl, or a physiologically acceptable salt thereof.
 - 4. The potassium channel opener according to Claim 1 or 2,
- comprising as an effective ingredient a substance selected from the group consisting of the following compounds: (1) a compound wherein R^1 is alkyl, R^2 is carboxyl, R^3 is alkyl, R^4 is alkenyl, R^5 is alkyl, and R^6 and R^7 are hydrogen, (2) a compound wherein R^1 is alkyl, R^2 is carboxyl, R^3 is alkyl, R^4
- 20 is alkyl, R^5 is alkenyl, and R^6 and R^7 are hydrogen, and (3) a compound wherein R^1 is alkyl, R^2 is carboxyl, R^3 is alkyl, R^4 is alkyl, R^5 is alkyl, and R^6 and R^7 are hydrogen, and a physiologically acceptable salt thereof.
- 5. The potassium channel opener according to Claim 1,
 25 comprising as an effective ingredient a substance selected
 from the group consisting of pimaric acid, dihydropimaric
 acid, dihydroisopimarinol, sandaracopimaric acid, isopimaric
 acid, and dihydroisopimaric acid, and a physiologically
 acceptable salt thereof.
- 30 6. A potassium channel opener comprising a compound represented by the following formula (II):

wherein R¹¹, R¹², R¹³, R¹⁴, R¹⁵, R¹⁶, R¹⁷, R¹⁸, R¹⁹, R²⁰ and R²¹ are each independently hydrogen, alkyl, alkenyl, halogen, hydroxy, halogenated alkyl, hydroxyalkyl, aminoalkyl, alkoxy, aryl, heteroaryl, acyl, carboxyl, alkoxycarbonyl, hydroxamate, sulfo, carbamoyl, sulfonamide, aldehyde or nitrile; or R²⁰ and R²¹ may be bonded to each other to form oxo,

or a physiologically acceptable salt thereof as an active ingredient.

7. The potassium channel opener according to Claim 6, comprising a compound represented by the formula:

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wherein R¹² is acyl, carboxyl, hydroxamate, sulfo,
carbamoyl, sulfonamide or nitrile;
R¹¹, R¹³, R¹⁴, R¹⁵, R¹⁶, R¹⁷, R¹⁸, R¹⁹, R²⁰ and R²¹ are each
independently hydrogen, alkyl, alkenyl, halogen, hydroxy,
halogenated alkyl, hydroxyalkyl, aminoalkyl, alkoxy, aryl,
heteroaryl, acyl, carboxyl, alkoxycarbonyl, hydroxamate,
sulfo, carbamoyl, sulfonamide, aldehyde or nitrile; or R²⁰
and R²¹ may be bonded to each other to form oxo,
or a physiologically acceptable salt thereof as an active
ingredient.

8. The potassium channel opener according to Claim 6 or 7, comprising as an effective ingredient a compound wherein R^{11} ,

- R^{13} , and R^{18} are alkyls, R^{12} is carboxyl, R^{14} , R^{15} and R^{16} are hydrogen, or a physiologically acceptable salt thereof.
- 9. The potassium channel opener according to Claim 6 or 7, comprising as an effective ingredient a compound wherein R^{11} ,
- R^{13} and R^{18} are alkyls, R^{12} is carboxyl, R^{14} , R^{15} , R^{16} , R^{20} , and R^{21} are hydrogen, and R^{17} and R^{19} are halogen, or a physiologically acceptable salt thereof.
 - 10. The potassium channel opener according to any claim of Claims 1 to 9, which is a calcium-activated potassium channel opener.
- 11. The potassium channel opener according to any claim of Claims 1 to 9, which is used for prevention and/or treatment of essential hypertension, tonic bladder, airway hyperresponsiveness, or ischemic central nervous system disorder.

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